

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING "FLAG IN THE AIR" TO A PART-TIME TRAFFIC SIGNAL AT THE INTERSECTION OF MD 45 AND HEREFORD HIGH SCHOOL EXIT IN BALTIMORE COUNTY, MARYLAND. MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

DURING NORMAL OPERATION, THE INTERSECTION WILL OPERATE IN A FLASHING MODE WITH THE MD 45 INDICATIONS FLASHING YELLOW AND THE HEREFORD HIGH SCHOOL EXIT INDICATIONS FLASHING RED. WHEN ACTIVATED, THE INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, SEMI-TRAFFIC ACTUATED MODE WITH THE MD 45 APPROACHES OPERATING CONCURRENTLY AND THE HEREFORD HIGH SCHOOL EXIT OPERATING ALONE.

CONTROLLER REQUIREMENTS

INSTALL VIDEO INTERFACE EQUIPMENT IN THE EXISTING POLE MOUNTED CABINET AND CONTROLLER.
INSTALL A MINI-HUB II IN THE EXISTING POLE MOUNTED CABINET AND CONTROLLER.

MAINTENANCE OF TRAFFIC

THE FOLLOWING MINIMUM TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.02-01 (SHOULDER WORK)
STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. DAVE MALKOWSKI
D. 4 - DISTRICT ENGINEER
PHONE: (410) 321-2810

MR. RANDALL SCOTT
D. 4 - ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781

MR. STEVE MARCISZEWSKI
D. 4 - ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761

MR. RICHARD L. DAFF, SR.
OFFICE OF TRAFFIC & SAFETY
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. EDWARD RODENHIZER
OFFICE OF TRAFFIC & SAFETY
CHIEF, SIGNAL OPERATIONS
PHONE: (410) 787-7652

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9000	1 EACH	50 FT. MAST ARM
9086	1 EACH	VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS
9000	1 EACH	MINI-HUB II (WITH HARNESS)

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	2 X EACH	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
8002	12 EACH	12 INCH RED OR GREEN LED SIGNAL HEAD
8003	6 EACH	12 INCH YELLOW LED SIGNAL HEAD
8018	3 X EACH	CONTROL CABLE, 100 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8028	1 EACH	REMOVE & DISPOSE OF EQUIPMENT
8065	3 X EACH	VIDEO DETECTION CAMERA
8074	1 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8078	50 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8079	220 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8082	1 EACH	INSTALL STEEL POLE AND SINGLE MAST ARM
8038	31 SF	RELOCATE EXISTING SIGNS

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR.

PHASE CHART

1	2	3	4	5	6
R	R	R	R	R	R
Y	Y	Y	Y	Y	Y
G	G	G	G	G	G

NORMAL OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	
PHASE 2 + 6	G	G	G	G	R	R	
2 + 6 CHANGE	Y	Y	Y	Y	R	R	
PHASE 4	R	R	R	R	G	G	
4 CHANGE	R	R	R	R	Y	Y	

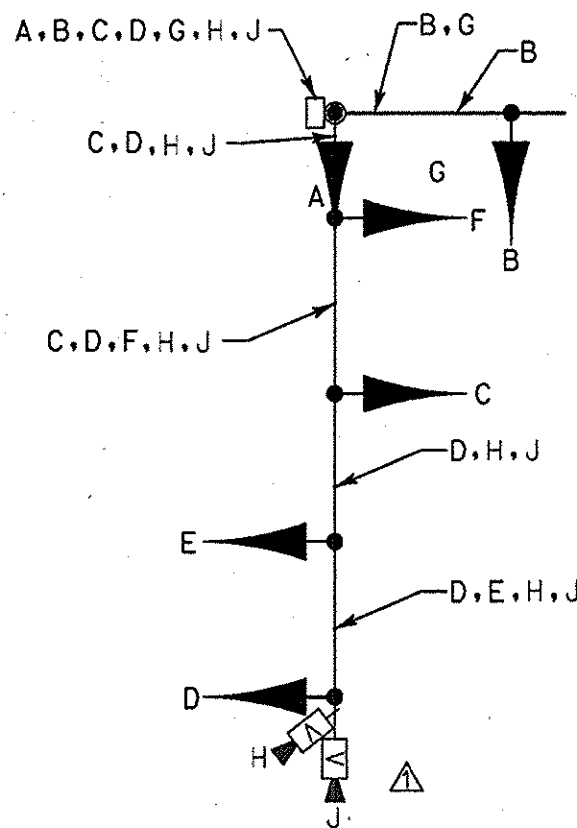
WIRING DIAGRAM

WIRING KEY

A
B
C
D } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

E
F } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

G
H
J } VIDEO CAMERA DETECTION LEAD-IN CABLE



REDLINE REVISION NO. 1
(12/12/2005)

AT SCHOOL EXIT:
ADD TWO (2) VIDEO CAMERAS
FOR BACK DETECTION.

WR&A

Whitman, Reardon
and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET
MD 45 @ HEREFORD HIGH SCHOOL EXIT

DRAWN BY: S.BLOSS
CHECKED BY: N. LEARY
SCALE: NONE
DATE: 11/12/99

F.A.P. NO.
S.H.A. NO.
COUNTY: BALTIMORE
LOG MILE: 03004516.90

TS NO.
TS-4119E
T.I.M.S. NO.
H306

SHEET NO.

2 OF 2

\$DGNNAME\$